SHESHUKOVA--PORETSKAYA, V.S.

Fossil diatoms of southern Sakhalin (marine Neogene). Vest-LGU
14 no.15:36-55 159. (MIRA 14:4)
(Sakhalin--Diatoms, Fossil)

#### SHESHUKOVA-PORETSKAYA, V.S.

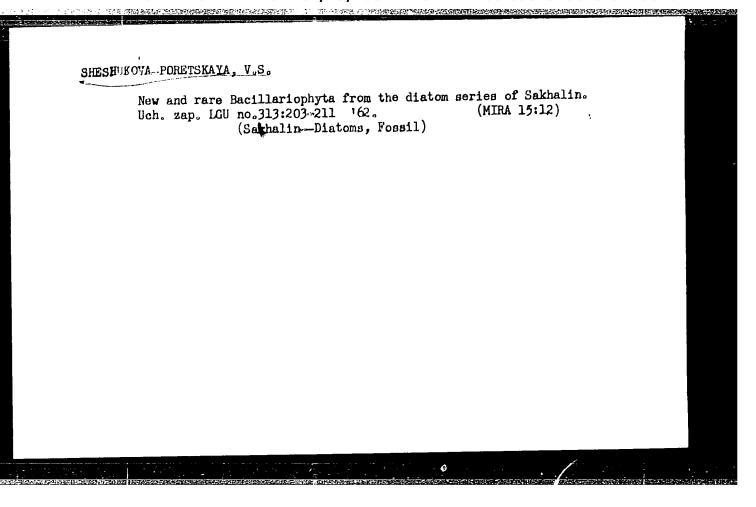
Diatomo of some peat bogs of the Baltic shore; the Estonian S.S.A. and Kaliningrad Province. Uch. zap. LGU no.313:137-170 '62. (MIRA 15:12)

(Estonia--Diatoms)
(Kaliningrad Province--Diatoms)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120016-2"

\_\_SHESHUKOVA-PORETSKAYA, V.S.; GLEZER, Z.I.

Diatoms, Silicoflagellatae and Ebriideae from Maikop sediments in the Shibik River; Krasnodar Territory. Uch. zap. LGU no.313:171-202 '&2. (MIRA 15:12) (Shibik River-Algae, Fossil)



SHESHULIN, G.I.

Composition of pas-liquid inclusions in minerals of spodumene.
Geol.mest.red.elem. no.9:67-79 'fi. (MIRA 18:9)

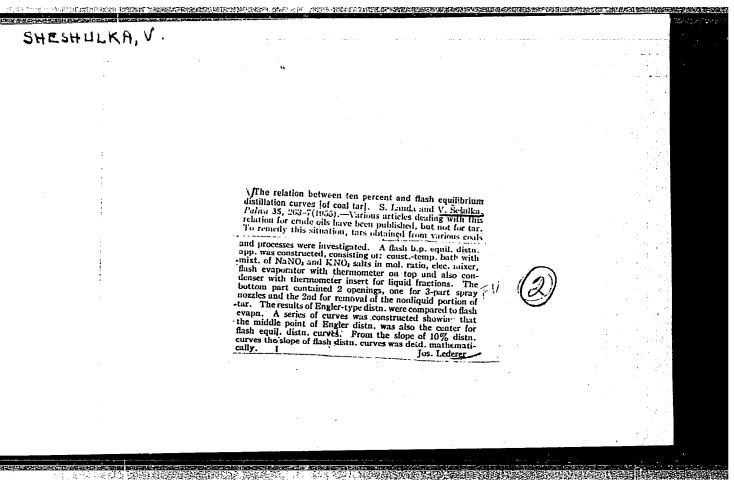
(Spodumene) (Permatites)

PUZAMOV, L.S.; SUDERKIN, A.I.; SHESHULIN. G.I.; DORZAKOV, B.A.; GUDKOV, A.S., nauchnyy red.; SEMILETKOVA, Ye.K., red. izd-va; SHMAKOVA, T.M., tekhn. red.

[Industry's requirements as to the quality of mineral raw materials] Trebovaniia proryshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov. Moskva, Gosgeoltekhizdat. No.31 [Piezoelectric and optical minerals] P'ezoelektricheskoe i opticheskoe syr'e. Izd.2., perer. 1962. 46 p.
(MIRA 15:10)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya.

(Quartz) (Iceland spar) (Fluorite)



HUTSLOV, M.M.; FEDVEDEV, M.N.; FILIPPOV, P.I.; CHUVILO, I.V.; SHESHEROV, V.M.

Recording of a Vavilov-Cherenkov radiation cone from isolated particles. Atom. energ. 12 no.5:A12 My '62. (MIRA 15:5) (Cherenkov radiation)

Sheshunova, V. (Exchange of Experience) Help in the work of the regional mining inspectors of the Central Statistical Bureau, USSR. P. 61

SO: Herald of Statistics (Vestnik). No. 2, 1951

## SHESKIN, A.

Tool for sharpening safety-razor blades. Prom.koop.no.8:29-31
Ag '55.

(MIRA 9:1)

1.Starshiy inzhener proizvodstvenno-tekhnicheskogo upravleniya promsoveta Estonskoy SSR.

(Razors)

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Provided to the min scence of manuscic between Sverelevsk, Cos.

Herbita izd-vo medicotry: 13t-ry, 19ko. 31 p. (50-2hlih)

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STRUCTS, 7. S. -- "The Use of Straptomycin in Tuberculosis of the Kidneys." Kiev Order of Lador ded Banner Medical Instituent Academician A. A. Boyomolets. Kiev, 1956.

(Diesertations for the Doyne of Candidate in Medical Sciences).

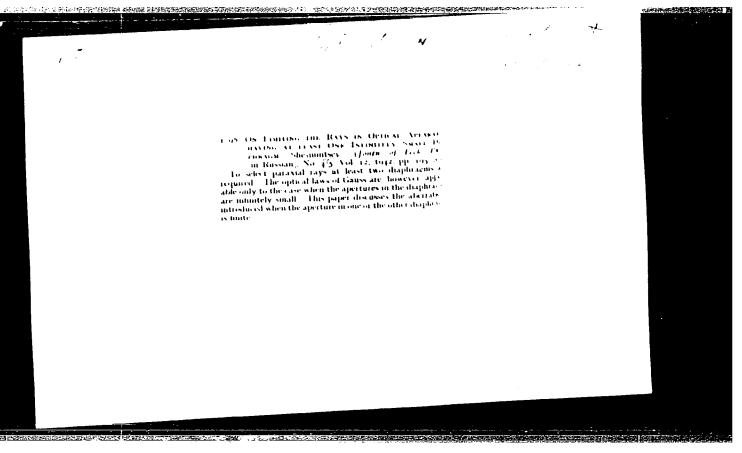
So: Khizhnaya Latonis!, No 9, 1956.

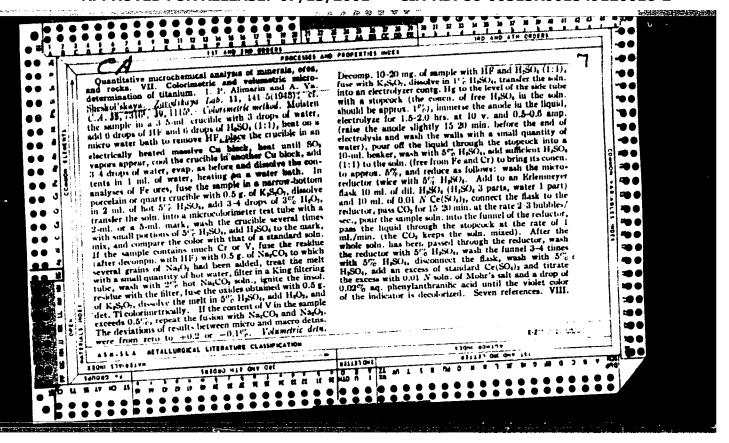
SHESKIN, F.M., kand.med.nauk

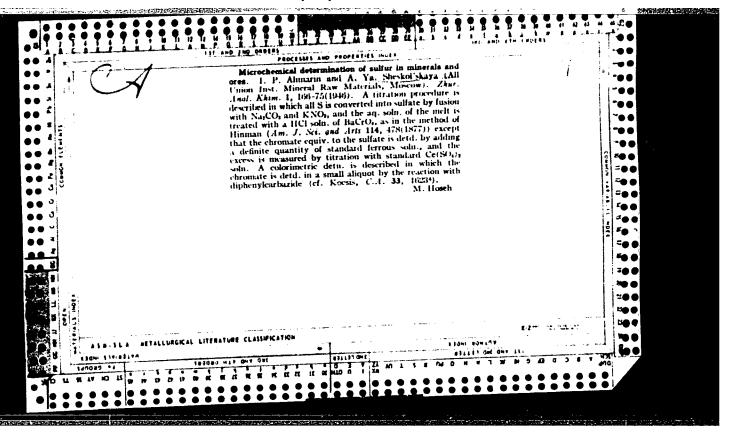
Conservative treatment in tuberculous epididymitis. Vrach.

delo no.5:150-151 My 162. (MIRA 15:6)

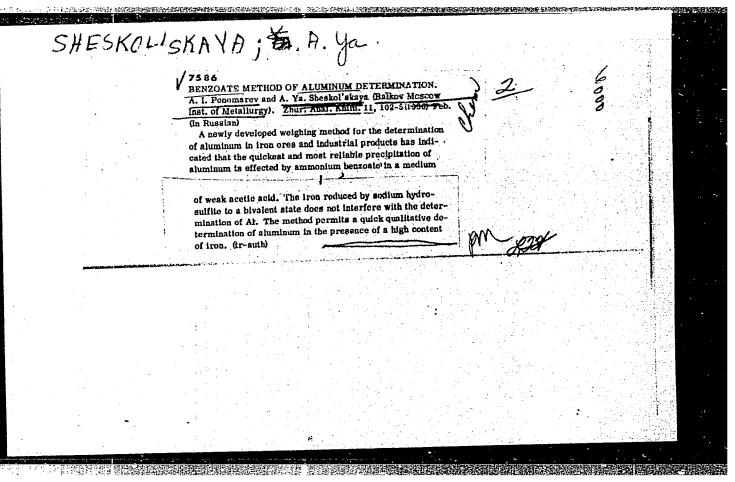
1. Poliklinicheskoye otdeleniye 2-y bolinitsy Oktyabriskogo rayona Kiyeva. (EPIDIDYMIS-TUBERCULOSIS)

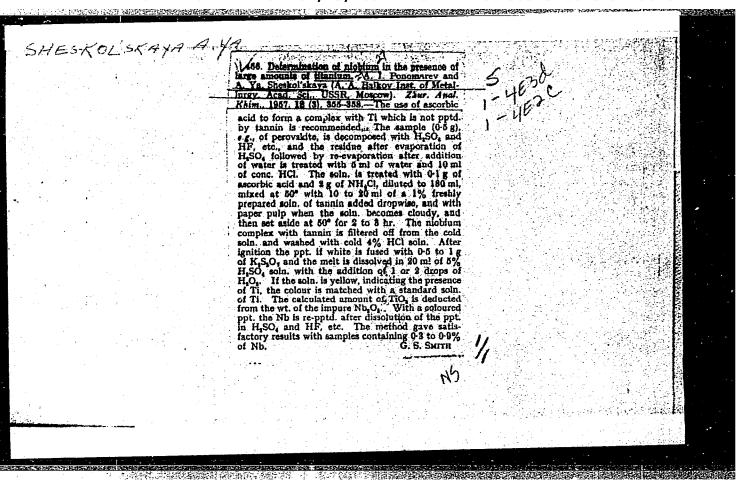






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up a Over the chive like perionical Determination of Sal ham in Minerale and Cile,"	
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5(2),5(3) AUTHORS: Ponomarev, A. I., Sheskol'skaya, A. Ya. SOV/75-14-1-15/32 PINE: Determination of miobium in the Presence of Tungsten by the Aid of Cupterron (Ocredeleniye miobiya v prisutstvii vol'frama pri pomoshchi kupferona) BRIGHTUAL: Zhurnal analiticheskoy khimii, 1959, Vol 14, Er 1, pp 67-70 (USSR) ADSPRACT: A method is devised in the present paper, permitting the determination of niobium in alloys, steels and other objects containing tungsten, without prior separation of the two elements. 3 niobium standard solutions were employed for the elaboration of this method: with tartaric acid, with oxalic acid and with ammonium oxalate. The determination takes place by precipitation of niobium with a 3% aqueous solution of cupferron from hydrochloric solution, containing one of the three mentioned complex-forming compounds. The precipitate is filtered off, annealed and then decomposed with potassium pyrosulfate. After cooling, a solution of oxalic acid, ammonium oxalate or tartaric acid is added, wherein the melt is soluble on heating. The solution obtained is acidified with hydrochloric acid and Card 1/3precipitation of niobium with cupferron is repeated. The

Determination of Niobium in the Presence of Tungsten by the Aid of Cupferron SOV/75-14-1-13/32

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precipitate obtained is annealed ( $\sim 1000^{\circ}$ ) and weighed out as Nb<sub>2</sub>O<sub>5</sub>. The precipitation with cupferron takes place at room temperature. Filtering and washing of the precipitate is rapid and reliable. The results obtained from the determination show that for determining niobium in the presence of tungsten all three mentioned complex formers are suitable to the same degree for the masking of tungsten. By the aid of the radioactive isotope  $W^{185}$  the precipitates of  $Nb_2O_5$  were investigated as to their tungsten content. The amount of tungsten co-precipitatea was found to be dependent on that of niobium. On precipitating 10 mg Nb in the presence of 100 mg W more pure  $\mathrm{Nb}_2\mathrm{O}_5$  containing no tungsten is obtained. Investigation of the precipitates that are obtained from the alloys W - Si - Wb showed co-precipitation of tungsten to occur only with niobium contents > 30%. The method devised is both rapid and accurate and permits the determination of niobium in the presence of

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Determination of Diobium in the Presence of Sev. 75-14-1-13/52 Tungston by the Aid of Cupferron

large ou ntities of tun sten. Tory detailed serking instructions for the misbium determination have an this method are given also suspect to w = Si = hb alloys ad tungsten-containing the six ic. There are a tables and 5 references, a seculidade loviet.

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Moscow)

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\$/509/60/000/004/022/024 E111/E152

AUTHORS:

Ponomarev, A.I., and Sheskol'skaya, A.Ya.

TITLE:

Determination of Niobium in Cast Irons

PERIODICAL: Akademiya nauk SSSR. Institut metallurgii.

Trudy, No.4, 1960. Metallurgiya, metallovedeniye, fiziko-khimicheskiye metody issledovaniya, pp.240-242

TEXT: The object of this work was to find a method of determining niobium in cast iron in the presence of iron and titanium, without their preliminary separation. Ascorbic acid C6H8O6 was used to form a complex with titanium and for reducing iron to the bivalent form in which it stays in solution. preliminary experiments the following procedure was developed. 1-1.5 g of the sample is treated with 5 ml of 1.40 s.g. nitric acid. After evaporation almost to dryness on a sand bath, the solution is completed by adding 50 ml of 1:2 hydrochloric acid and boiling. The volume of the solution is maintained by adding water. Ignoring any black light residue the solution is diluted to 180-190 ml, 1-2 g of ammonium chloride and 0.1-0.2 g of ascorbic acid are added and the temperature is raised to 70-80  $^{\circ}\text{C}_{\circ}$ Card 1/3

S/509/60/000/004/022/024 E111/E152

Determination of Niobium in Cast Irons

10 ml of freshly prepared 1% aqueous tannide solution are slowly added with stirring, the heating being continued for 2-3 hours. Macerated paper is added and after cooling the precipitate is filtered and washed 6-8 times with cold 4% hydrochloric acid. The precipitate and paper are heated in a platinum crucible until all graphite has burned off. A few drops of water, 10-20 drops of 1:1 sulphuric acid and 2.3 ml of hydrofluoric acid are added and the crucible is gradually heated on a sand bath until SO3 fumes have been evolved for 5 min. 1-2 ml of water are added to the cooled crucible and evaporation is carried out until only 2-3 drops of sulphuric acid remain. After cooling, 1-2 ml of water and 5 ml of hydrochloric acid (s.g. 1.19) are added and the crucible is heated until all salts have dissolved. The solution is transferred to a beaker, diluted to 80-90 ml and the niobium is precipitated as before after addition of 0.10 g of ascorbic The filtered and washed precipitate and filter paper are heated to 1000 °C for 5-7 minutes in a platinum crucible which is then cooled in a desiccator and weighed. The residue is fused Card 2/3

S/509/60/000/004/022/024 Ell1/El52

Determination of Niobium in Cast Irons

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with potassium pyrosulphate (0.5-1.0 g) and the melt is dissolved in 20 ml of 5% sulphuric acid with 1-2 drops of hydrogen peroxide. If the solution is colourless titanium is absent; if it is pale yellow it is diluted to 25 ml and its coloration compared with that of a standard titanium solution, the equivalent weight of titanium dioxide being subtracted from the weight of the niobium pentoxide precipitate. There are 2 tables and 5 references: 3 Soviet, 1 English and 1 German.

Card 3/3

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120016-2"

S/075/62/017/003/003/004 1017/1217

AUTHOR.

Sheskol'skaya, A. Y.

TITLE:

Determination of zirconium and niobium in their binary alloys using cupferron

PERIODICAL.

Zhurnal analyticheskoy khimii, v. 17, no. 3, 1962, 327-329

TEXT A rapid and precise method for the determination of zirconium and niobium in their binary alloys, based on the successive precipitation of these elements using cupferron.

A review of the problem in the literature is given. Works of Alimarin and Schröder are cited and adapted The results of a series of determinations of Nb and Zr in synthetic solutions containing tartaric acid are tabulated and the error calculated. The error varies in this case between 0-3% (relative).

The method of analysis of solutions containing Zr and Nb in a ratio of 1:1 and 3:1 is identical with that described here for samples of unknown composition.

PROCEDURE: 1) Determination of zirconium — 0.1 g of the sample is dissolved in a Pt-crucible by addition of 2-3 ml KF and a few drops of HNO<sub>3</sub> to the complete dissolution of the alloy. Then 3-4 ml  $\rm H_2SO_4$  (Sp. gr = 1.84) are added and heated in a sand bath, for 10-15 min. until white vapors appear and all the HNO<sub>3</sub> is removed. After cooling, 25 ml 4% solution of tartaric acid and 10 ml 2% soln. of NH<sub>3</sub>fluoride are added and the solution is transferred to a 300 ml beaker. The solution (100-125 ml), is neutralised by

Card 1/2

Determination of...

S/075/62/017/003/003/004 I017/I217

ammonia using phenol-red indicator, the color changes from red, through yellow, to red; 2 drops ammonia are added in excess. The solution is cooled to room temp, and Zr is precipitated by addition of 10–15 ml 6% aqueous cupferron soln, which is added slowly with stirring, the soln, is left in the cold one night. The precipitate is filtered off using a filter of 9 cm. M (white band), and washed 5–6 times with cold water. The precipitate with the filter paper is placed in a weighed Pt or porcelain crucible, ignited for 10–20 min, at 1000°C, cooled in a desiccator and ZrO<sub>2</sub> is weighed. The factor for Zr calculation from ZrO<sub>2</sub> is 0.7403.

2) Determination of niobium - 50 ml 2% soln. of boric acid, 5 ml HCl, 20-25 ml 6% aqueous soln. of cupferron are added to the filtrate obtained after the separation of the Zr by vigorous and constant stirring to complete coagulation of the precipitate. After filtration carried out under the same conditions as for the Zr separation, the 20 ml 6% aqueous cupferron soln. The precipitate with the filter is ignited in Pt or porcelain crucible for 15-20 min. at  $1000^{\circ}$ C cooled in a desiccator and the Nb<sub>2</sub>O<sub>4</sub> weighed. The factor for the Nb calculation from Nb<sub>2</sub>O<sub>4</sub> is 0.6990.

ASSOCIATION. Institut metallurgii im. A.A. Baykova, Akademii Nauk SSSR. (Institute of metallurgy im. A. A. Baykov, Academy of Sciences, USSR) Moscow

SUBMITTED: May 8, 1961

Card 2/2

Determination of zirconium in the ... \$/075/62/017/008/001/004 E071/E135

ASSOCIATION: Institut metallurgii im. A.A. Baykova, Moskva

(Institute of Metallurgy imeni A.A. Baykov, Moscow)

SUBMITTED: January 19, 1962

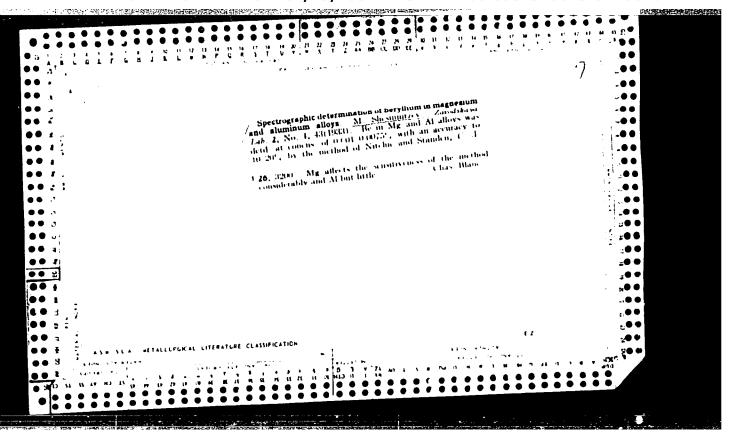
Card 2/2

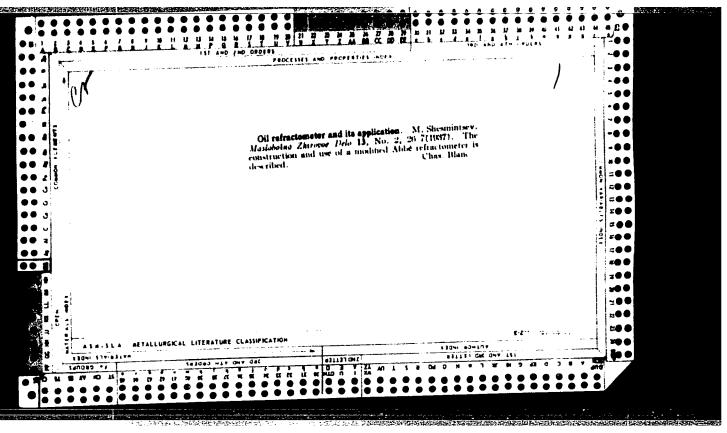
Frespects for finding il in the Grenburg portion of the KamaKinel' system of troghs. Neftegaz. geol. i geofiz. no. 5:8-11

163. (MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochny
nef'tyanoy institut i Neftepromyslovoy upravleniye "Buruuslarneft'".

"Historiani Datas of Our Aviation and Aerganutics"	
Indatel'stvo Deseal, M seow 1983	
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Nor., All-Snion Rection-Rections Inst., Joseph, -1789-. "The Limiting System Abstraction Effect on the Illumination of a Screen by an Infinite and Jourse of Limit," Zhur. Effect on the Illumination of a Harlmann of Spheric Abstraction on the Phrotocric Tekh. Fig., 14, 16s. 6-5, 188; "In the Influence of Spheric Abstraction of the Phanasteristics of Ootical Apparatus," itid., 16, 16, 1, 186; "On the Susstian of the Distribution of the Illumination in the Plane of the Inace of Photographic Cojectives," ibid., 16. 9, 1946.

High-illuminance mirror-lens systems used for image transmission.
Opt.-mekh.prom. 25 no.5:24-25 My '56. (MIRA 11:9)

(Optical instruments)

S/0137/64/000/005/D038/D038

ACCESSION NR: AR4041593

SOURCE: Ref. zh. Metallurgiya, Abs. 5D225

AUTHOR: Shesno, L. P.; Shevchenko, G. A.

TITLE: Influence of method of heating of Hlayer billets (steel E1847-armco iron) under hot rolling on inclination in intercrystalline corrosion of steel E1847 in Hotrolled clad pipes

CITED SOURCE: Sb. Proiz-vo trub. Vy\*p. 10. M., Metallurgizdat, 1963, 106-109

TOPIC TAGS: bilayer billet, bilayer billet heating, hot rolling, intercrystalline corrosion, clad pipe/E1847 steel

TRANSLATION: In investigation conducted for clarification of the influence of the method of heating of bilayer billets under rolling on inclination of steel E1847 to intercrystalline corrosion, for abutment boundary contact with Armco Fe hotrolled billet of steel EI847 from automatic mill was used, which after boring and

Card 1/3

ACCESSION NR: AR4041593

line corrosion, as conducted investigations showed on hot-rolled pipes of steel EI847 with cladding of Armco Fe is usually of a local character, whereupon with strengthening of degree of corrosion the area of sections affected by it increases, including the entire surface of bending of sample. Bibliography: 6 references.

SUB CODE: MM

ENCL: 00

Card 3/3

SHESTAK, G.A., kand. tekhn. nauk  Recurrence of basic parameters of one-story inhustrial buildings of the machinery industry. From. stroi. 37 no.6:48-50 Je '59.  (MIRA 12:8)  (Factories-Designs and plans)			1		
of the machinery industry. From. strol. 37 no.0:40-30 be 37. (MIRA 12:8)	SHESTAK, G.A.,	kand. tekhn. nauk			
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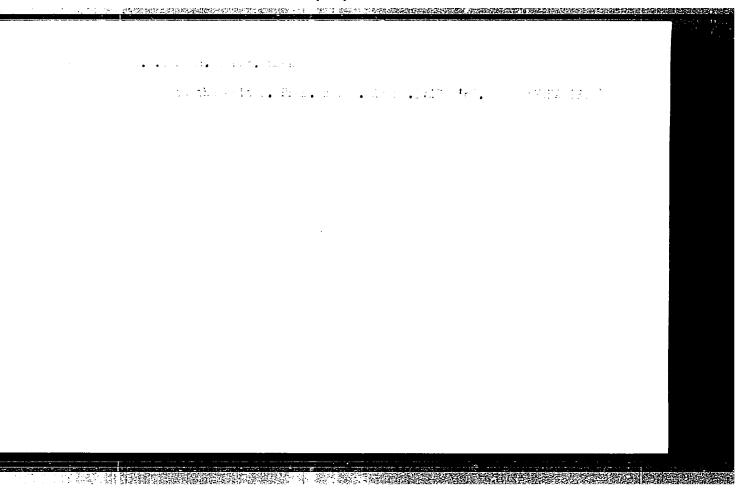
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KIKIN, A.I., prof.; SELEMYA, Ye.I., prof.; STHELET. MIY, N.S., prof., doktor tekhn. nauk; LESSIG, Ye.N., dots.; 18KHAYOV, K.K., dots.; DUBILISKIT, G.S., dots.; SHESTAK, G.A., dots.; IGHAT YEVA, V.S., dots.; NY BAKOV, V.M., dots.; GIMINEV, A.N., prof.; VEDENÍKOV, G.S., dots.; TUBIN, S.M., kand. tekhn. nauk, nauchnyy red.; BECAK, B.A., red. izd-va; CSENKO, L.M., tekhn. red.

> [ketal construction; present state and outlook for future development] Netallicheskie konstruktsii; sostoienie i prespektivy razvitiia. Fod obshchei red. N.S.Streletskogo. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materi-(EIRA 15:4) alam, 1961. 333 p.

1. Moscow. Moskovskiy inzhenerno-stroitel'nyy institut. 2. Kafedra metallicheskikh konstruktsiy Moskovskogo inzhenernostroitel'nogo institituta imeni V.V.Kuybysheva (for all except Tubin, Hegalt, Osenko).

(Building, Iron and steel) (Aluminum, Structural)



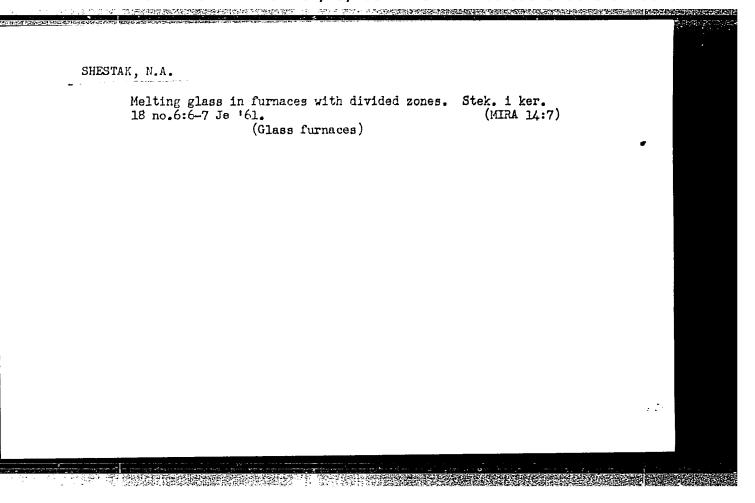
SHESTAK, Georgiy Andrianovich, kand. tekhn. nauk; GENIYEV, A.N., prof., retsenzent; ZELYATOROV, V.N., inzh., nauchn. red.

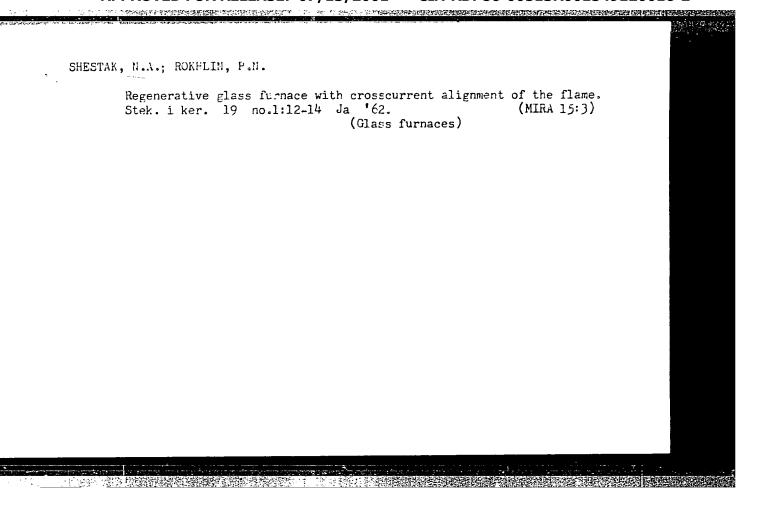
[Designing steel structures for one-story industrial buildings] Proektirovanie stal'nykh konstruktsii odnoetazhnogo promyshlennogo zdaniia. Moskva, Stroiizdat, 1964. 169 p.

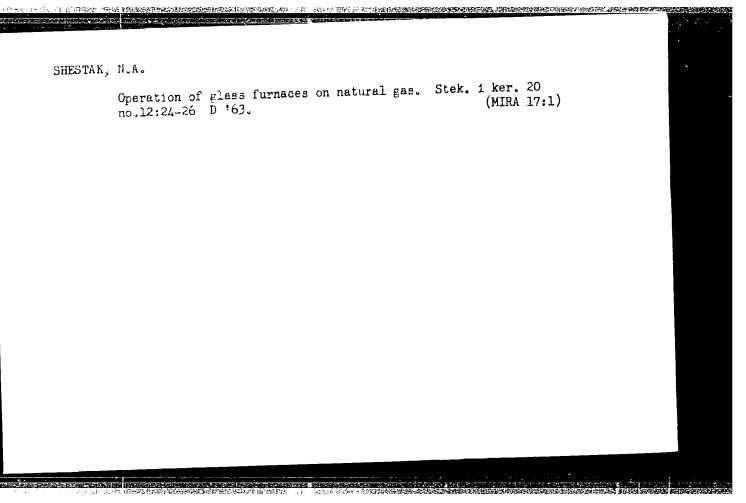
(MIRA 17:4)

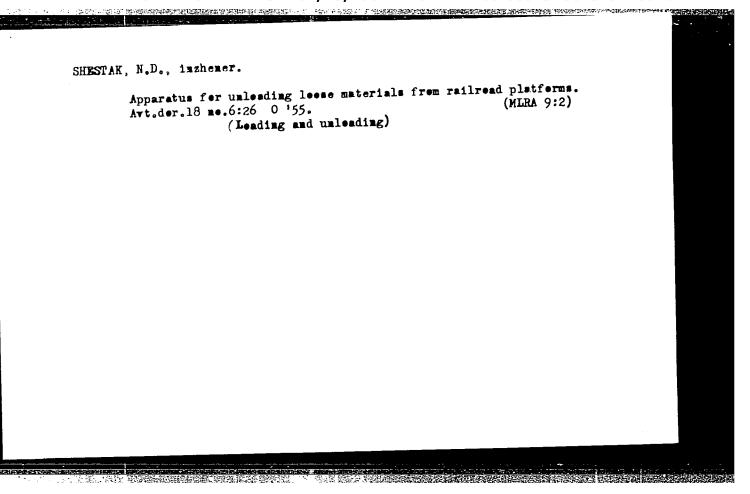
1. Kafedra metallicheskikh konstruktsiy Leningradskogo inzhenerno-stroitelingo instituta (for Geniyev).

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120016-2"









SHESTAK, N.D., inzhener.

Erecting the framework of concrete plants. Avt.dor. 19 no.9:11-12 (NLRA 9:11) S '56. (Concrete plants)

HES	TAK, ^	$\mathcal{N}$ .			5	-
			g/081/62/000/00 B162/B101	6/099/117		
	AUTHORS:	Dorogochinskiy, A. Z., Bash Arutyunova, O. L., Krecheto	ilov, A. A., Chertoryz va, P. I., Shestak, N.	hskiy, 1. V., P.	10	
	TITLE:	The problem of the choice of thylene into polyethylene	f solvent for polymeri at low pressure	zation of		
j.	PERIODICAL:	Referativnyy zhurnal. Khim 6P35 (Tr. Groznensk. neft.	iya, nc. 6, 1962, 614, in-t, v. 3, sb. 25, 19	abstract 61, 17-29)	15	
	benzine as a at low press tion benzine content of 3 or a fraction is not needed the presence the	vestigation is made of the possible vestigation is made of the possible vestigation is solvent for ethylene when possible vestigation exporation at 65-5 and evaporating at 75-95°C in ed (aromatic hydrocarbon concest of aromatic hydrocarbons had impairs the regenerability of	pllowing are suitable: 10°C with an aromatic land of 0.7% after de-a- the case of which de-a- entration 0.7%. It i	an extrac- hydrocarbon conatization conatization s shown that ymerisation	20 25	
	note: Compl	lete translation.			_	
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SHESTAK, N. P.; CHERTORIZHSKIY, A. V.; MIRSKIY, Ya. V.; MITROFANOV, M. G.; DEMENKOV, I. A.

Adsorption properties of synthetic zeolites-molecular sieves and their use in the advanced-stage dehydration of monomers. Neftekhimia 2 no.4:512-518 Jl-Ag '62. (MIRA 15:10)

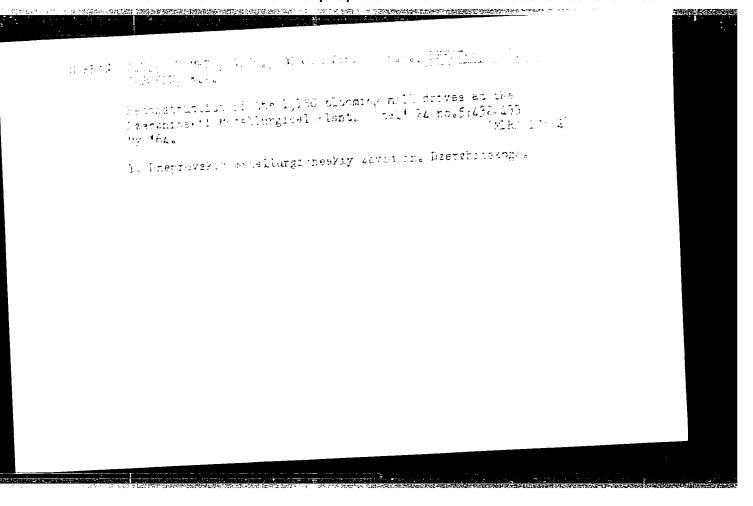
1. Groznenskiy nauchno-issledovatel skiy neftyanoy institut i Groznenskiy khimicheskiy zavod.

(Zeolites) (Monomers)

GARBER, K.S., dotsent; NIKITIN, A.I.; LYAUDIS, B.V.; MALINOVSKIY, B.N., kand. tekhn.nauk; BEL'SKIY, C.I.; VOLKOV, L.G.; KUZKETSOV, M.P.; KUTSENKO, A.D., SOROKIN, A.A.; STAKHURSKIY, A.D.; TRUBITSYN, L.M.; TRUSEYEV, A.I.; SHAFRAN, I.K., inzh.; SHESTAK, P.J.; UL'YANOV, D.P.

Antomatic control of converter smelting by means of compu' 's. Stal' 23 no. 7:608-610 Jl '63. (MIRA 16:9)

1. Dneprodzerzhinskiy metallurgicheskiy zavod-vtuz im. M.I. Arsenicheva (for Garger). 2. Institut kibernetiki AN UkrSSR (for Malinovskiy). 3. Zavod im. Dzerzhinskogo (for Shafran).



SHESTAK, S., podpolkovnik yustitsii

Temporary center of legal information. Komm.Vooruzh.Sil 3
no.22:92 N '62. (MIRA 15:12)

(Military law—Study and teaching)

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LUZANSIAYA, Dora Isaakovna; SHFARLINSKIY, V.M., spets. red.; AYNZAFT, Yu.S., red.; SHESTAK, S.N., red.

[Inland-water fisheries of the U.S.S.R. (lakes, rivers, and reservoirs); a guide] Rybokhoziaistvennoe ispol¹zovanie vnutrennikh vodoemov SSSR (ozer, rek i vodokhranilisheh); spravochnik. Moskva, Pishchevaia promyshlennost¹, 1965.
597 p. (MIRA 18:7)

LAZAREVA, V.S. assist; SHESTAY, S.S.

Determining the toxicology of grain and combined feeds. Veterinarita (MIRA 10:11)
34 no.10:70 0 '57.

1. Chkolovskiy gosmedinative for Lavareva). 2. Zaveduyushchiy khimiko-toksikologicheskim aradica discovskoy nauchno-issledovatel-skoy veterinarnog stantaii (for Jeestak)
(Yeeding and leeding staffa--Toxicology)

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SHESTAK, S.S., nauchnyy sotrudnik; KORENEVI, G.P.; KORENEVA, T.A.; SAPCEOV, A.G., nauchnyy sotrudnik

Use of SZHK (pregnant mares serum). Veterinariia 37 no.1:10-12 Ja '60. (MIRA 16:6)

1. Orenburgskaya nauchno-issledovatel'skaya veterinarnaya stantsiya (for Shestak). 2. Direktor Simferopol'skoy mezhsovkhoznoy laboratorii (for Korenev). 3. Simferopol'skaya mezhsovkhoznaya laboratoriya (for Koreneva). 4. Turkmenskaya NIIZhV (for Sapogov). (Serum therapy) (Veterinary medicine)

SHESTAKOV, A.

Reducing the cost of transportation. NTO 2 no.1:22-24

Ja '60.

1. Pradsadatel' pravleniya Nauchno-tokhnicheskogo obshchestva
Omskov zheleznov dorogi.

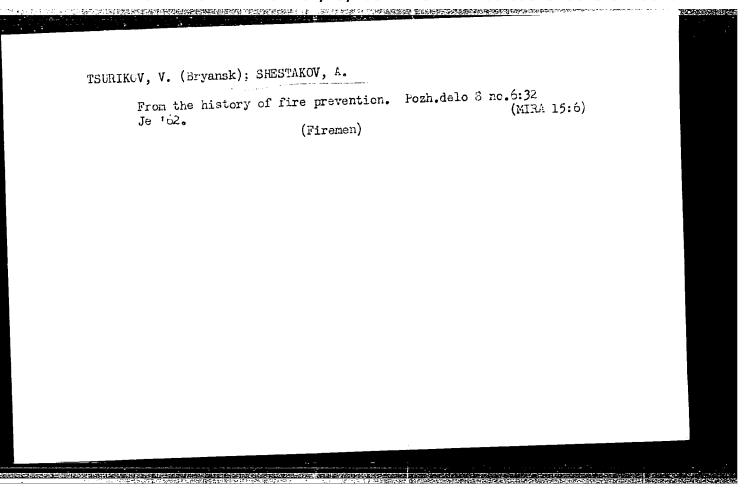
(Omsk--Railroad research)

SHESTAKOV, A., tekhnik-stroitel; DIKIY, V.; TUMASYAN, I.; KLOKOV, N., inzhener-stroitel; POPOV, F., inzh.

Readers' letters. Sel'. stroi. 15 no.4:27 Ap '61. (MIRA 14:6)

1. Sel'khozinspektsiya Orshanskogo rayona, Mariyskoy ASSR (for Shestakov). 2. Predsedatel' kolkhoza imeni Kirova Yegorlyksogo rayona, Rostovskoy oblasti (for Dikiy). 3. Sekretar' partiynoy organizatsii kolkhoza imeni Kirova Yegorlykskogo rayona, Rostovskoy oblasti (for Tumasyan). 4. Sel'khozinspektsiya Khorol'skogo rayona, Primorskogo kraya (for Klokov).

(Farm buildings)



SHESTAKOV, Anatoliy, inzh.

Tuning up and launching into operation of the Maritsa-Iztok I. Thermoelectric Plant. Elektroenergiia 13 no.5/6:34-37 My-Je 62.

l. Gl. inzhener na grupata suvetski spetsiali pri Teploelektricheskata tsentrala "Maritsa-Iztok I ."

SOV/2330 PHASE I BOOK EXPLOITATION 25(1) Shestakov, Andrian Andrianovich Machinist parovozdushnogo molota (Steam Hammer Operator) Moscow, Mashgiz, 1959. 118 p. Errata slip inserted. 8,000 copies printed. Reviewer: P. G. Levandovskiy, Engineer; Eds.: B.N. Kazarinov, Engineer, and S. G. Puchkov, Engineer; Tech. Ed.: N. A. Dugina; Executive Ed.: A. V. Kaletina, Engineer (Ural-Siberian Division, Mashgiz). PURPOSE: This book is intended as a manual for steam hammer operators and repairmen, and may also be used by forging machine workers. COVERAGE: The book provides information on open and closed die forging processes, on forgeability of metals, and equipment for heating forging stock. This book is primarily concerned with the constructions and performance of steam forging hammers and hydraulic and crank presses. No personalities are mentioned. There are 10 references, all Soviet. TABLE OF CONTENTS: General Information on Open Die and Closed Die Forging 3 Concept of the processes of open die and closed die forging Card 1/4

Steam Hammer Operator	S0V/2330	
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SHESTAKOV, Andrian Andrianovich; LEVANDOVSKIY, P.G., inzh., retsenzent;

KAZARINOV, B.N., inzh., red.; PUCHKOV, S.G., inzh., red.;

DUGINA, N.A., tekhn.red.

[Steam and pneumatic hammer operator] Mashinist parovozdushnogo molota. Moskva, Gos.nsuchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 118 p.

(Forging machinery)

SHESTAKOV, As; GOLOV, Yu.

From the history of fire departments. Pozh.delo 8 no.4:30 (MIRA 15:4)
Ap '62. (Fire departments)

Dissertation: "Behavior of Integral Curves of a System of Differential Equations in the Vicinity of a Linguial Point of Higher Order." Sci Res Inst. of Mathematics, Moscow Order of Lenin State IJ imeni M. V. Lomonosov., 17 Dec 17.

S0: Vechernyaya Moskva, Dec 1947 (Project #17836)

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Mor., Sci. Res. Inst. Lath., Norman State Univ. -ol. WS-. Mor., Recomposite Inst., Dept. Physico-lath. Sci., Acad. Sci., -ol. Wg-. "Dehavior of Integral Surves of the System of Ordinary Differential Equations in the Vicinity of a Singular Point," Dok. AM, 62, No. 2, 1948; "The Asymptotic Dehavior of the Solutions of a Non-Linear System of Differential Equations," ibid., 62, No. 5, 1948; "The Behavior of Integral Gurves of a System of Differential Equations in the Neighborhood of a Singular Point of Sigher Grader," ibid., 65, No. 2, 1948.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120016-2"

SHESLAKOV, AA.	3
Sestakov, A. A. On the behavior of the integral curves of a system of ordinary differential equations in the neighborhood of a singular point. Doklady Akad. Nauk SSSR (N.S.) 62, 171-174 (1948). (Russian)  The equations  (1) $\dot{x}_1 = \sum_{j=0}^{\infty} c_j x_1^j$ , $\dot{x}_2 = \sum_{j=1}^{\infty} a_{ij} x_j + X_i(x_1, x_2, \dots, x_n)$ , $i=2, \dots, n$ , are considered, $0: x_1 = \dots = x_n = 0$ being an isolated singular point and the $X_i$ being power series beginning with terms of at least the second degree. The characteristic roots $\lambda_j$ of the matrix $(a_{ij})$ , $i, j=2, \dots, n$ , are supposed to have non-	The singular point is classified as a node, a generalized saddle of the 1st, 2d or 3d type or a saddle-node, according to the signs of $c_m$ and of the $\Re(\lambda_j)$ and whether $m$ is even or odd. Theorem 2. If the $\lambda_j$ are real and negative, $m \ge 2$ , the solutions tending to $O$ are tangent at the origin to the curve defined by equating to zero the second members of the last $n-1$ equations (1).  J. L. Massera.
vanishing real parts. Theorem 1. If $\Re(\lambda_j) > 0$ , $j = 1, \dots, k-1$ ; $\Re(\lambda_j) < 0$ , $j = k, \dots, n$ , and if $c_m > 0$ , then given any system of $k$ sufficiently small numbers $x_1^0, \dots, x_k^0(x_1^0 > 0)$ , there is one and only one system $x_{k+1}^0, \dots, x_n^0$ such that the solution passing through the point $(x_1^0, \dots, x_n^0)$ tends to $O$ as $i \to -\infty$ .  Source: Mathematical Reviews.	Vol. 10 No. 4

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SHESTAKOV, A.A			nging that trademagn grows a suggestion of the suggest through the star of the suggest through the suggest through the star of the suggest through the suggests that the suggest through the s		
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,	behavior of solution equations. Doklad	Palvin, A. U. On the asympton of difference of Akad. Nauk SSSR (N.S.) 02, 4 an)	195-		
	of the system	avior as $i \to \infty$ of the stable solut $-\varphi_i(x_1, x_2, \dots, x_n, t),  i = 1, 2, \dots$			
	O. Perron [Math. Z. Petrovsky [Rec. Mat	, 0, t) = 0), has been studied 29, 129-160 (1928)] and by I th. [Mat. Sbornik] (1) 41, 107- t note some of those results are sta ses. Not all of the proofs are give W. Wasow (Swarthmore, Pa.	-155 ated n.		
Source: Mathema	tical Reviews.	Vol 10 No.8	Eug Il		
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SHES IAKC, A.A. The behavior of the integral curves of a system of the form

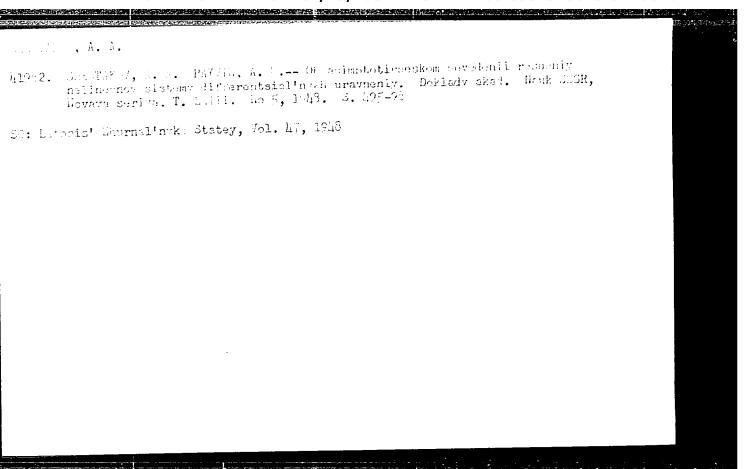
\[ \frac{dx}{dt} = X\_1(x\_1), \frac{dx}{dt} = \psi\_t(x\_1, x\_1) + X\_t(x\_1, x\_2, \dots, x\_3) \]

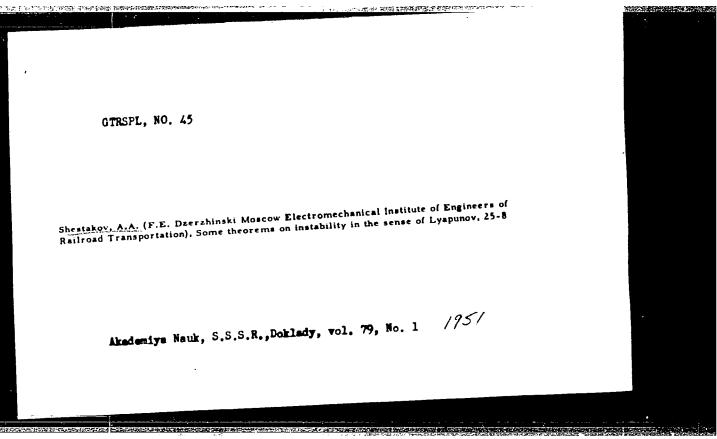
In the neighborhood of a singular point. Doklady Akad.

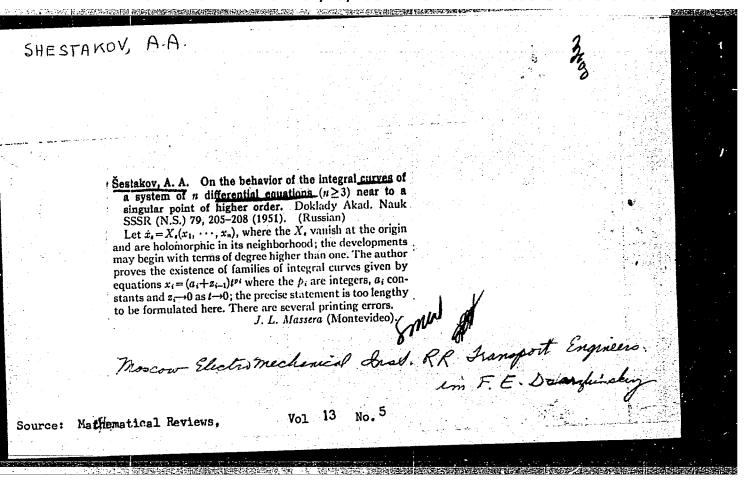
Nauk SSSR (N.S.) 62, 591-594 (1948). (Russian)

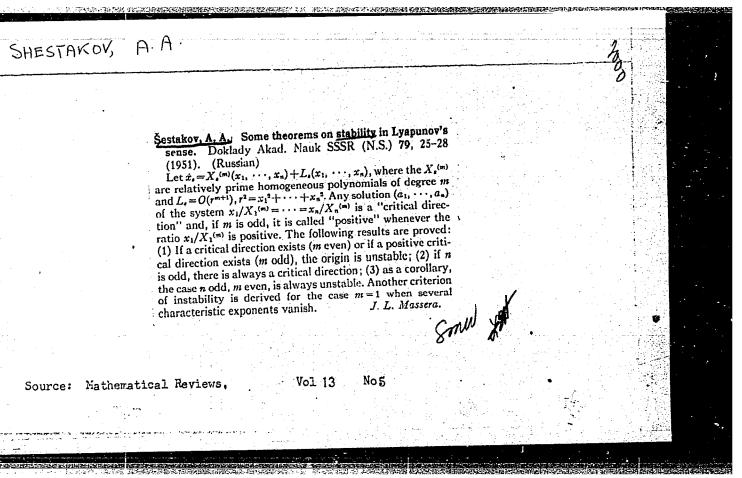
Previous results of the author [see the preceding review] are generalized to the present systems. He assumes that

\[ \text{O:} x\_1 = \dots = \dots = \dots = 0 \text{ is an isolated singular point, that } x\_1 = 0 \text{ is an isolated roor of } X\_1, \text{ that } J = \beta - \dots \dots









SHESTAKOV, A. A.

USSR/Mathematics - Wonlinear Mechanics 1 Jul 51 Stability, Servo

"Certain Theorems Concerning Stability in Liapounoff's Sense," A. A. Shestakov, Moscow Electromech Inst of Engineers of Railroad Transport imeni F. E. Dzerzhinskiy

"Dok Ak Nauk SSSR" Vol LXXIX, No 1, pp 25-28

Considers the system of differential eqs of disturbed motion:  $x_3' = F_g(x_1,...,x_n)$ , where  $F_g(0,...,0) = 0$  (s = 1,...,n). Derives some new criteria governing the stability or instability (e.g., nature of the roots of the characteristic eq), in the form of 4 theorems. Presented by Acad I. G. Petrovskiy 28 Apr 210751

#### SHESTAKOV, A. A.

"Distribution as Singular Points of a System of n Differential Equations", Tr. Kazansk, Aviats. In-ta, Vol 27, 1953, pp 41-50.

The author presents a development of Poincare's investigations of the distribution of singular points of a system of n differential equations inside an (n-1) dimensional manifold, where n is greater than or equal to 3. The system discussed is the following:  $\frac{dx_S}{dx_S} = x_S (x_1, \dots, x_n), s = 1, 2, \dots, n,$  dt where  $X_S$  and the partial derivative of  $X_S$  with respect to  $x_j$  are continuous and bounded in a bounded region  $F(x_1, \dots, x_n)$  of n-dimensional space. (RZhNat, No 1, 1955). So: Sum. No. 443, 5 Apr. 55

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120016-2"

FUKS, Boris Abramovich, prof.; BAKHSHIYAN, F.A., prof.; ANDRIYEVSKIY,

F.P., dotsent; MIROSHKOV, R.K., dotsent; NAGAYEVA, V.M., dotsent;

SOBOLEV, N.A., dotsent; SOKGLOV, A.M., dotsent; SHAPIRO, Z.Ya.,

dotsent; SHUSHARA, G.N., dotsent; KAPLAN, I.B., starshiy pre
podavatel'; POLOZKOV, A.P., starshiy prepodavatel'; POLOZKOV,

D.P., starshiy prepodavatel'; TOPAZOV, N.G., starshiy prepoda
vatel'; SHCHERBAKOV, S.S., starshiy prepodavatel'; Prinimali

uchastiye: GOL'DENVEYZER, A.L., prof.; BARANENKOV, G.S., dotsent;

BERMAN, Ya.R., dotsent; LUNTS, G.L., dotsent; SHESTAKOV, A.A.,

dotsent; GMURMAN, V.Ye., starshiy prepodavatel'; Rozental', M.P.,

assistent; SOKOLOVA, L.A., assistent. ROZANOVA, G.K., red.izd-va;

KUZ'MINA, N.S., tekhn.red. (Continued on next card)

FUKS, Boris Abramovich—(continued) Card 2.

[Higher mathematics; methodological instructions and control assignments for the students of correspondence technical schools of university level] Vysshaia matematika; metodicheskie ukazaniia i kontrol'nye zadaniia dlia studentov zaochnykh vysshikh tekhnicheskikh uchebnykh zavedenii. Izd.9. Pod red.

B.A.Fuksa. Moskva, Gos.izd-vo "Sovetskaia nauka." 1958. 179 p.

(MIRA 12:9)

1. Russia (1923- U.S.S.R.) Ministerstvo vysshego obrazovaniya.

Metodicheskoye upravleniye.

(Mathematics—Study and teaching)

ZAPOROZHETS, G.I.; SHESTAKOV, A.A., red.; MEDVEDEVA, M.A., tekhn.red.

[Methodological handbook for solving problems on mathematical analysis] Metodicheskoe rukovodstvo k resheniiu zadach po matematicheskomu analizu. Moskva, Vses. saochnyi in-t inzhenerov zhel-dor.transporta. Pt.1. 1959. 202 p. (MIRA 13:5) (Mathematical analysis)

16(1) AUTHOR:

Shestakov, A. A.

507/42-14-1-23/27

TITLE:

Theorems on the Existence of Integral and Critical Straight Lines of a Homogeneous System of n Differential Equations  $(n \ge 3)$ (Teoremy o sushchestvovanii integral'nykh i kriticheskikh pryamykh odnorodnov sistemy n differentsial'nykh uravneniy (n>3))

PERIODICAL: Uspekhi matematicheskikh nauk, 1959, Vol 14, Nr 1, pp 245-248 (USSR)

The author considers the system ABSTRACT:

(1)  $\frac{dx_s}{dt} = X_s^{(m)}(x_1,...,x_n), m \ge 2, n \ge 3,$ 

where the  $X_s^{(m)}$  are forms of m-th degree. The real solutions  $g = (g_1, g_2, \dots, g_n)$  of the algebraic equations  $g = (g_1, g_2, \dots, g_n)$  of the algebraic equations  $g = (g_1, g_2, \dots, g_n)$ =... =  $x_n: X_n^{(m)}$  define the straight lines  $x_p: x_n = g_p: g_n$ ; these are integral curves of (1). Theorem 1 is already announced Theorem 2: If m is odd, then (1) has at least one integral straight line. Definition: If a solution runs at infinity in

Card 1/2

Theorems on the Existence of Integral and Critical Straight Lines of a Homogeneous System of n Differential Equations  $(n \ge 3)$ 

SOY/42-14-1-23/27

THE REPORT OF THE PROPERTY OF

the direction  $g = (g_1, \dots, g_n)$ , then this straight line is called

Theorem: The critical straight lines are integral straight lines. There are 2 references, 1 of which is Soviet, and 1 German.

SUBMITTED: November 4, 1957

Card 2/2

Pkhakadze, A.V., and Shestakov, A.A. SOV/39-49-1-1/5 PATEORS: On the Classification of Singular Points of a First Order SALLE Differential Equation Where the Derivative is Not Given Explicitly FERTODICAL: Matematicheskiy sbornik, 1959, Vol 49, Nr 1, pp 3-12 (USSR) Given the Differential equation ABSTRACT: F(x,y,y') = 0.To the solutions y = f(x) there correspond those curves of the surface F(x,y,p) = 0(s) for which (2) -p dx + dy = 0.The equations of these curves are (5)  $\frac{dx}{dt} = -F_p, \quad \frac{dy}{dt} = -p F_p, \quad \frac{dp}{dt} = F_x + p F_p.$ The singular points  $(x_0,y_0,p_0)$  of (3) are defined by F=C,  $F_p = 0$ ,  $F_x + pF_p = 0$ . Definition: If  $(x_0, y_0, p_0) \in S$  is a singular point of (3), then  $(x_0,y_0)$  is called a singular point of (1). Sant 1/2

Or re Classification of Singular Points of a SOV/39-49-1-1/5 First Order Differential Equation Where the Derivative is Not Given Explicitly

This definition deviates from the definition of J.G.Petrovskiy / Ref 1 7 and gives the possibility of a classification of the singular points of (1). With the aid of the Taylor development of F the authors obtain the "differential equation of the first approximation":

 $\frac{1}{2} (F_{pp}) \rho^2 + (F_{xp}) x p + \frac{1}{2} (F_{xx}) x^2 + F_y y = 0,$ where  $0(x^3 + p^3)$  is neglected since these terms have no intluence

where  $O(x^3+p^3)$  is neglected since these terms have no influence the behavior of the integral curves in the neighborheod of the singular point. Differentiating (7) with respect to x and considering p as a function of x, then there includes

(13)  $\frac{d\rho}{dx} = \frac{2\beta x + (\alpha + \gamma)p}{6x - 2p},$ 

where  $\alpha_{3}\beta_{3}$ , are certain constants. Now the classification of the signar points is transferred from (13) to (7) and further to (1), where three principal types are distinguished: elliptic, hyperbolic, and parabolic singular points. There are 5 figures, and 2 references, to 6 which is Soviet, and 1 French.

SUBMITTED: November 18, 1957

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5/020/60/131/05/14/069

13

Asymptotic Behavior of Solutions to Multidimensional Systems of Ordinary Differential Equations Having a Singular Point of Higher Order

author asserts that (1) has families of solutions of certain dimensions which along these parabolas run through the origin. The author distinguishes several cases. There are 4 long theorems.

There are 2 Soviet references.

ASSOCIATION: Vsesoyuznyy zaochnyy institut inzhenerov zheleznodorozhnogo

transporta (All-Union Correspondence Institute for Engineers

of Railroad Transportation)

PRESENTED: December 18, 1959, by I.G.Petrovskiy, Academician

SUBMITTED: December 15, 1959

X

Card 2/2

31100 S/199/61/002/005/004/006 B112/B138

Asymptotic behavior of the ...

 $x=(\omega+y)\tau$  and  $\overline{\tau}=(c_0-t)^T$ ,  $x=(\overline{\omega}+\overline{y})\overline{\tau}$ . The eigenvalues of L and M are characteristic of the asymptotic behavior of the solutions. Several theorems concerning this behavior are derived. There are 10 Soviet references.

SUBMITTED: August 13, 1960

Card 2/2

KHRIPUNOV, A.M., inzh.; SHESTAKOV, A.D., inzh.; SHEPILOV, M.Ye., inzh.

Our method to secure an accurate performance of the regenerative braking circuit of the VLS electric locomotive; from the practices of the Zlatoust Depot of the Southern Urals Railroad. Elek. i tepl.tiaga no.8:13-16 Ag '63. (MIRA 16:9)

1. Depo Zlatoust Yuzhno-Ural'skoy dorogi.
(Electric locomotives--Brakes)

THE PROPERTY OF THE PROPERTY O

SHESTAKOV, A.I., red.; IVANUSHKO, N.D., red.; SVESHNIKOV, A.A., tekhn. red.

[Programmed teaching and cybernetic teaching machines; collection of scientific and technical articles] Programmirovannoe obuchenie i kiberneticheskie obuchaiushchie mashiny; nauchno-tekhnicheskii sbornik statei. Moskva, "Sovetskoe radio," 1963. 247 p. (MIRA 17:3)

82**292** S/135/60/000/007/010/01<sup>4</sup> A006/A002

18.7200

AUTHORS:

Gritsenko, A.F., and Shestakov, A.I., Engineers

TITLE

Pressure-Butt Welding of Aluminum Magnesium Alloy Parts of up to

10,000 mm2 Cross Section

Svarochnoye proizvodstvo, 1960, No. 7, pp. 30-33

The Laboratory of Electrothermics of the Institut elektrotekhniki AN USSR (Institute of Electric Engineering AS UkrSSR) and a machinebuilding plant PERIODICAL: developed a technology of pressure-butt welding of aluminum-magnesium alloy blanks (AMr-5BM(AMg5VM) and AMr3 (AMg3)) of up to 10,000 mm<sup>2</sup> cross section. The experimental investigation was carried out on a special installation designed by P.A. X Pleskanovskiy (Figure 1). The ring-shaped blanks to be welded were decreased and heated up to 450°C. To carry out additional heating of high-strength alloys the installation was equipped with an induction heater. Welding was performed at a specific reduction pressure of 120 kg/mm<sup>2</sup> (the reduction rate was 0.5 m/min, the magnitude of reduction was 140 mm). One half of the specimens cut out from the weld joints were annealed at 280°C, and were then subjected to tension and bending tests. During tension the specimens broke down in the base metal. The weld joints had a high dustillty. Macro- and micro-investigations showed the absence of inter-

Card 1/2

82292

S/135/60/000/007/010/014 A006/A002

Pressure Butt Welding of Aluminum-Magnesium Alloy Farts of up to 10,000 mm<sup>2</sup> Cross Section

face boundaries, pores and cracks. Due to the presence of vanadium in the AMg5VM alloy, relatively short heating and low temperatures, the tendency to grain growth under pressure welding conditions did not considerably affect the mechanical properties of weld joints. The structure of AMg3 alloy joints was slightly coarser grained than that in the initial alloy. A slight increase in hardness was observed in the transition areas of the base metal to the butt. X-ray examination of AMg5VM specimens of 4,500-6,000 mm<sup>2</sup> cross section did not reveal any defects. The tests proved that the strength of weld joints produced by the described technology was equal to that of the base metal, with satisfactory bending angle values. Annealing to 280°C did not have any essential effect on the mechanical properties of the joints. The method is simple and economical. There are 5 photographs and 1 table.

Card 2/2

hl620 \$/135/63/000/001/003/016 A006/A101

AUTHORS:

Khrenov, K. K., Academician of All UkrSSR, Shestakov, A. I.,

Engineer

TITLE:

On plastic deformation in pressure butt welding

PERIODICAL: Svarochnoye proizvodstvo, no. 1, 1963, 11 - 12

TEXT: It is proposed to determine plastic deformation in cold and pressure butt-welding from the volume of the extruded metall (burr). The metal cut-off during welding is weighed and the value obtained is divided by the specific metal weight. The proposed method is illustrated by examples which show that the notion of the "deformation degree" should be replaced by the term "deformation value", which can be experimentally determined. Butt welding should be performed with optimum deformation value. It is the decisive factor of the process: lower deformation reduces the strength and ductility of the weld and increased deformation raises the metal consumption. There are 4 figures.

ASSOCIATION: Institut elektrotekhniki AN UkrSSR (Institute of Electric

Engineering, AS UkrSSR)

Card 1/1

S/125/62/000/005/009/010 D040/D113

Pressure welding of rolled....

upsetting is doubled. The metal is heated to plastic state, clamped in special holding clamps, and upset in several reprisals. The clamps have a large gripping surface, hold the metal by friction, and thus do not deform the surfaces. Metal with surface defects and oxide films is squeezed out into the burr. Metallographic investigation of samples taken at different stages of the process reveals diffusion, fine metal structure, and absence of an overheated zone. The struc ture in the butt joint zone consists mainly of a solid solution of Mg in Al, and a very small  $\beta$  -phase. In tests, the bend angle of metal specimens from the joint is lower than in the base metal, and the impact strength 50% lower, simply because of the anisotropy of Al-Mg alloys. Conslusions: (1) Al-Mg alloy elements can be pressure butt-welded; (2) the quality of welded joints is high; (3) the techniques introduced at some heavy-machinery plants and developed for pressure butt welding elements with a cross section area of up to 10,000 mm are recommended for extensive application. There are 3 figures and 2 tables. Institut elektrotekhniki AN USSR (Electrical Engineering Institute,

ASSOCIATION:

AS UkrSSR)

SUBMITTED:

February 10, 1962

Card 2/2

KHRENOV, K.K., akademik; SHESTAKOV, A.I., inzh.

Plastic deformation during pressure butt welding. Svar.proizv.
(MIRA 16:2)
no.1:11-12 Ja '63.

1. Institut elektrotekhniki AN UkrSSR. 2. AN UkrSSR (for
Khrenov). (Welding) (Deformations (Mechanics))

GRITSENKO, A.F., inzh.; SHESTAKOV, A.I., inzh.; YERMOLENKO, D.Ye., inzh.

Cold-pressure welding of dissimilar metals. Svar. proizv. no.2:32-33
f \*163. (MIRA 16:2)

(Cold welding)

ACCESSION NR: AP4037197

S/0125/64/000/005/0010/0014

AUTHOR: Shestakov, A. I. (Engineer)

TITLE: Cold and press welding of light alloys

SOURCE: Avtomaticheskaya svarka, no. 5, 1964, 10-14

TOPIC TAGS: aluminum alloy, titanium alloy, aluminum alloy welding, titanium alloy welding, cold welding, press welding, aluminum alloy press welding, aluminum alloy cold welding, titanium alloy press welding, titanium alloy cold welding

ABSTRACT: An experimental study of the potentialities of cold and press welding of aluminum-magnesium alloys (AMg3, AMg5V, AMg6), thermally-hardened alloys D16AT, ATsM, V92, titanium alloys VT1, VT6, and various combinations of the above is reported. The effects of temperature, deformation, pressure, and time upon the quality of the joints were determined. Al alloys were welded at 0.7-0.8 of their melt temperature (AMg5V at 450C). Three types of clamps were tested with different ratios of the clamping pressure to the upsetting pressure.

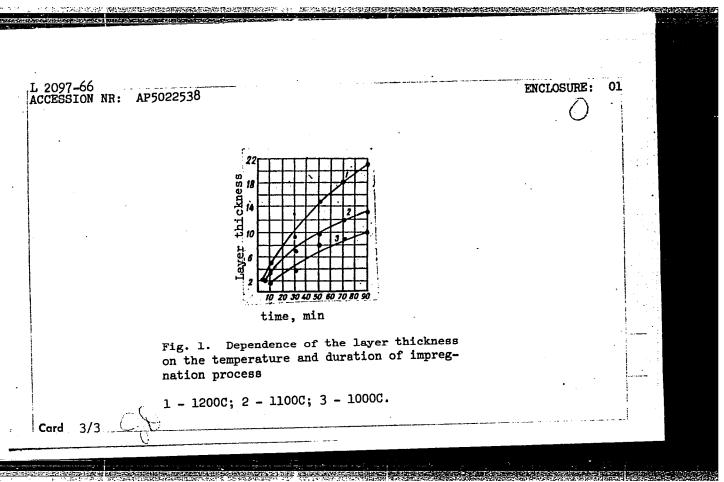
Card 1/2

AUTHOR: Zemskov, G. V.; Shestakov, A. I.  TITLE: Diffusion impregnation of graphite powders  SOURCE: Poroshkovaya metallurgiya, no. 9, 1965, 1-5  TOPIC TAGS: graphite powder, powder particle, graphite particle impregnation, phase impregnation, chromium impregnated graphite, titanium impregnated graphite, molybdenum impregnated graphite, tungsten impregnated graphite  ABSTRACT: A method of diffusion impregnation of graphite powder with carbide-forming elements in the gaseous phase is proposed. The method is based on a reaction between graphite powder mixed with the impregnation metal particles and a vaporized halide of the same metal transported by eninert gas or hydrogen. In the experiments, graphite powder was impregnated with chromium using liquid bromine as the halide and helium for bromine vapor transport. The impregnation was conducted at 1000—1200C and helium for bromine vapor transport. The impregnation was conducted at 1000—1200C for up to 90 min. It was found that the optimum conditions for obtaining the thickest impregnated layer were a bromine temperature of 25C, a feed of helium and bromine of 7 ml/sec and 0.05 ml/min, respectively, and a weight ratio of chromium particles to graphite powder in the mixture equal to 6. The reaction temperature had the	IJP(c) JD/ww/wh ACCESSION NR: AP5022538	UR/0226/65/000/009/0001/0005
TOPIC TAGS: graphite powder, powder particle, graphite particle impregnation, phase impregnation, chromium impregnated graphite, titanium impregnated graphite, molybdenum impregnated graphite, tungsten impregnated graphite  ABSTRACT: A method of diffusion impregnation of graphite powder with carbide-forming elements in the gaseous phase is proposed. The method is based on a reaction between graphite powder mixed with the impregnation metal particles and a vaporized halide of the same metal transported by an inert gas or hydrogen. In the experiments, graphite powder was impregnated with chromium using liquid bromine as the halide and helium for bromine vapor transport. The impregnation was conducted at 1000—1200C and helium for bromine vapor transport. The impregnation for obtaining the thickest for up to 90 min. It was found that the optimum conditions for obtaining the thickest impregnated layer were a bromine temperature of 25C, a feed of helium and bromine impregnated layer were a bromine temperature of 25C, a feed of chromium particles	AUTHOR: Zemskov, G. V.; Shestakov, A. I.	se powders
ABSTRACT: A method of diffusion impregnation of graphite powder with carbide-forming elements in the gaseous phase is proposed. The method is based on a reaction between graphite powder mixed with the impregnation metal particles and a vaporized halide of the same metal transported by an inert gas or hydrogen. In the experiments, graphite powder was impregnated with chromium using liquid bromine as the halide and helium for bromine vapor transport. The impregnation was conducted at 1000—1200C and helium for bromine vapor transport. The impregnation for obtaining the thickest for up to 90 min. It was found that the optimum conditions for obtaining the thickest impregnated layer were a bromine temperature of 25C, a feed of helium and bromine impregnated layer were a bromine temperature and a weight ratio of chromium particles	SOURCE: Poroshkovaya metallurgiya, no. 9	, 1965, 1-5
	phase impregnation, chromium impregnated molybdenum impregnated graphite, tungster ABSTRACT: A method of diffusion impregnate elements in the gaseous phase is proposed graphite powder mixed with the impregnate of the same metal transported by an inert graphite powder was impregnated with chromand helium for bromine vapor transport. for up to 90 min. It was found that the impregnated layer were a bromine temperature.	ation of graphite powder with carbide-forming d. The method is based on a reaction between ion metal particles and a vaporized halide gas or hydrogen. In the experiments, omium using liquid bromine as the halide The impregnation was conducted at 1000—1200C optimum conditions for obtaining the thickest ture of 25C, a feed of helium and bromine

greatest effect on the impregnated layer thickness (see Fig. 1 of the Enclosure).  greatest effect on the impregnated layers were obtained on graphite grains 60 and Dense, uniform, strongly adhering layers were obtained on graphite grains 60 and 200 mesh with a 50-min reaction at 200C. X-ray structural analysis showed that all coatings consisted of Cr <sub>3</sub> C <sub>2</sub> and Cr <sub>7</sub> C <sub>3</sub> carbides with a microhardness of 1840—2440 dan/mm². In further experiments, dense, ductile coatings consisting of 1840—2440 dan/mm². In further experiments, dense, ductile coatings particles in the microhardness of 1300—3000 dan/mm² were obtained on graphite particles with a 70-mm reaction at 1200C. Mo <sub>2</sub> C coatings were obtained with a 50-min reaction with a 1200C. Tungsten-carbide coatings were also obtained on graphite particles with a reaction at 1300C. Orig. art. has: 5 figures.  ASSOCIATION: Odesskiy politekhnicheskiy institut (Odessa Polytechnic Institute)  YY. 5 SUB CODE: MT, MM  NO REF SOV: 000 OTHER: 002 ATD PRESS: 44/1 3	• • •		
SUBMITTED: 13Feb65 ENCL: 01 SUB CODE: MT, MM NO REF SOV: 000 OTHER: 002 ATD PRESS: 4// 3	greatest effect on the impregn Dense, uniform, strongly adher 200 mesh with a 50-min reactio coatings consisted of Cr <sub>3</sub> C <sub>2</sub> an 1840—2440 dan/mm <sup>2</sup> . In furthe TiC with a microhardness of 13 with a 70-mm reaction at 1200C at 1200C. Tungsten-carbide coa reaction at 1300C. Orig. and	n at 200C. X-ray structural of Cr <sub>7</sub> C <sub>3</sub> carbides with a micror experiments, dense, ductil 200—3000 dan/mm <sup>2</sup> were obtain to Mo <sub>2</sub> C coatings were obtain eatings were also obtained on the has: 5 figures.	analysis showed that all ohardness of e coatings consisting of ed on graphite particles ed with a 50-min reaction graphite particles with [MS]
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L 12920-66 EWP(e)/EWT(m)/T/EWP(t)/EWP(z)/EWP(b)/EWA(c)  ACS NR: AP6001008 SOURCE CODE: UR/0286/65/000/022/0079/0079  AUTHORS: Zemskov, G. V.; Shestakov, A. I.  ORG: none  TITLE: A method for thermodiffusional surface saturation of metals and alloys. Class 148, No. 176475  SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1965, 79  TOPIC TAGS: metallurgy, metal powder, halogen, iodine compound, metal diffusion, alloy  ABSTRACT: This Author Certificate presents a thermodiffusional method for surface saturating of powdered metals and alloys in the atmosphere of halides. To eliminate saturating of powdered metals and alloys in the atmosphere of halides. To eliminate saturating of powdered metals and alloys in the atmosphere of halides. To eliminate saturating of powdered metals and alloys in the atmosphere of halides. To eliminate saturating of powdered metals and alloys in the atmosphere of halides. So eliminate solid halogen compounds of ICI or IBr are used as sources of halogens.  SUB CODE: /3/1/  SUEM DATE: OlMay64	
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SOURCE CODE: UR/OW13/66/0. 1014-0161/0131	
ACC NR: AP6029073	
INVENTOR: Zemskov,, G. V.; Shestakov, A. I.	
ORG: none TITLE: Method of applying a diffusion coating on graphite. Class 48, No. 164093	1 1
SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 131  TOPIC TAGS: diffusion coating, graphite coating, metal coating, metal diffusion	
ABSTRACT: This Author Certificate introduces a method of applying method abstract: This Author Certificate introduces a method of applying method abstract: To ensure the homogeneity of the diffusion layers, the process coating on graphite. To ensure the homogeneity of the diffusion layers, the process coating on graphite. To ensure the homogeneity of the diffusion layers, the process coating on graphite. To ensure the homogeneity of the diffusion layers, the process coating on graphite. To ensure the homogeneity of the diffusion layers, the process coating on graphite. To ensure the homogeneity of the diffusion layers, the process coating on graphite. To ensure the homogeneity of the diffusion layers, the process coating on graphite. To ensure the homogeneity of the diffusion layers, the process coating on graphite. To ensure the homogeneity of the diffusion layers, the process coating on graphite. To ensure the homogeneity of the diffusion layers, the process coating on graphite. To ensure the homogeneity of the diffusion layers, the process coating on graphite. To ensure the homogeneity of the diffusion layers, the process coating on graphite. To ensure the homogeneity of the diffusion layers, the process coating on graphite and the process coating of the graphite diffusion layers.	
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duced with vibr produced by a s welding of AMg5 with 50-ton cap	ations had a static load (11 ) V alloy specimen	rength of 13 kg/mm <sup>2</sup> ), but as with a cr 5 ton. Th	1.5 kg, roughly required light coss section of the vibration wel	e 3.5 mm in diameter p the same as that of we er equipment. Static 250 mm <sup>2</sup> requires a pre ding device for the sa	cold
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SHESTAKOV, A.I.

Experience with eperating electric and diesel lecemetives en the Omsk Railreed. Zhel.der.transp.37 me.4:23-27 Ap '56. (MLRA 9:7)

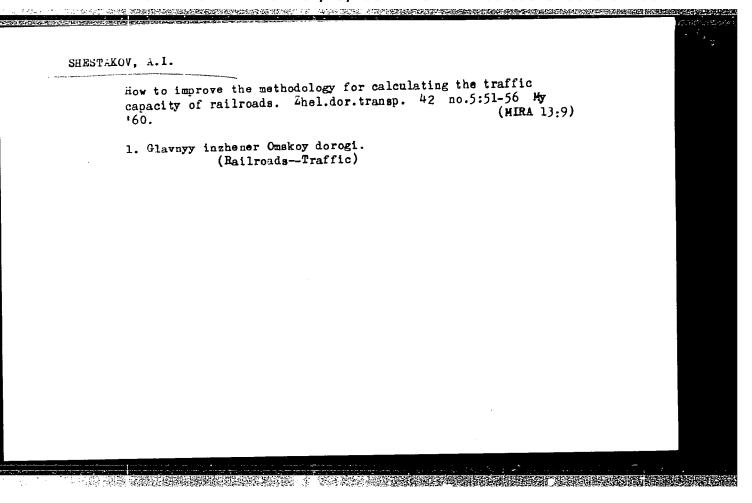
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SHESTAKOV, Aleksandr Ivanovich; TIKHONOV, K.K., dotsent, red.; MEDVE-DEVA, M.A., tekhn.red.

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TYURIKOV, A.A.; SHESTAKOV, A.I., inzh.; FESKOVA, L.N., red.;
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